Morning Parallel Session 9:00 a.m.-12:30 p.m.

Session E2-Exposure Studies

Chairpersons: Wayne Ott, U.S. Environmental Protection Agency, Washington, D.C.; Mirka Fugas, Laboratory of Environmental Hygiene, Institute for Medical Research and Occupational Health, Zagreb, Yugoslavia

Estimation of Personal Exposure to Carbon Monoxide from Fixed and Portable Monitoring, M.J. Atherton, U.S. Environmental Protection Agency, Ann Arbor, Michigan

Personal Exposure to Carbon Monoxide: Nine Person Study, R.A. Ziskind and K.R. Fite, Science Applications, Inc., Los Angeles, California; D.T. Mage, U.S. Environmental Protection Agency, Research Triangle Park, North Carolina

Measurement of Carbon Monoxide Concentrations in Indoor and Outdoor Locations Using Personal Exposure Monitors, Peter Flachsbart and Wayne Ott, Stanford University, Stanford, California

Personal Exposure Dose of Nitrogen Dioxide, K. Maeda and H. Nitta, Department of Epidemiology, School of Health Sciences, University of Tokyo, Tokyo, Japan

Personal Monitoring for Nitrogen Dioxide Exposure: Methodological Considerations, J.J. Quackenboss, M.S. Kanarek, and G. Harding, Department of Preventive Medicine, Center for Health Sciences, University of Wisconsin, Madison, Wisconsin; J.D. Spengler and R. Letz, Harvard School of Public Health, Boston, Massachusetts

Individual Human Exposure to Volatile Organic Compounds Encountered During Normal Daily Activities, L. Wallace, Office of Research and Development, U.S. Environmental Protection Agency, Washington, D.C.

Personal Exposures to Respirable Particles: Tale of Two Cities — Kingston and Harriman, TN, J.D. Spengler, R. Treitman, and T. Tosteson, Harvard School of Public Health, Boston, Massachusetts; David Mage, U.S. Environmental Protection Agency, Research Triangle Park, North Carolina

Results of Personal Exposure Versus Monitoring Station Data for Respirable Particles, Mirka Fugas, Laboratory of Environmental Hygiene, Institute for Medical Research and Occupational Health, Zagreb, Yugoslavia

Micro-Environment Types: A Model for Human Exposure to Air Pollution, N. Duan, The Rand Corporation, Santa Monica, California

Badge-Type Personal Sampler for Measurement of Personal Exposure to NO_2 in Ambient Air, Y. Yanagisawa and H. Nishimura, Department of Chemical Engineering, University of Tokyo, Tokyo, Japan

Design of a Personal Sampler of Three Respiratory Irritants, S. Mintz, R. Hosein, B. Batten, and F. Silverman, The Gage Institute, Toronto, Canada

Development and Characterization of Personal Samplers for Respirable Particulates and Gases, R.L. McKenzie, Gas and Particulate Science Division, Center for Analytical Chemistry, United States Department of Commerce, National Bureau of Standards, Washington, D.C.

Afternoon Parallel Session 2:45 p.m.-6:00 p.m.

Session F1-Ventilation and Controls

Chairpersons: James Wood, Jr., Iowa State University, Ames, Iowa; Peter Warren, Building Research Station, Herfordshire, England

Methods for Control of Indoor Air Quality, C.E. Billings and S.F. Vanderslice, Department of Environmental Health Sciences, School of Hygiene and Public Health, The Johns Hopkins University, Baltimore, Maryland

A Retrofit Approach to Control Ambient Formaldehyde Levels in Mobile Homes. E.N. Skiest, Borden Inc., Columbus, Ohio

Control of Indoor Air Pollution by Hypernegionization (HNI) and Passive Electret Filtration, C. Wallach, Behavioral Research Associates Inc., Silver Spring, Maryland

The Effect of Air Control Systems on the Indoor Distribution of Viable Particulates, D.A. Sterling, C. Clark, and S. Bjornson, University of Cincinnati, Environmental Health, Cincinnati, Ohio

Containment Facilities for Pathological Materials, R.P. Clark, MRC Clinical Research Center, Laboratory for Aerobiology, Middlesex, United Kingdom

Control of the Ventilation by CO_2 Content, D. Sodergren and P. Petersson Konstruktionsbyra AB, Stockholm, Sweden

Airborne Asbestos in Buildings During Abatement Action, R.N. Sawyer, Department of Preventive and Occupational Medicine, Yale University Health Services, Yale University, New Haven, Connecticut

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Afternoon Parallel Session 2:45 p.m.-6:00 p.m.

Session F2-Models for Indoor Air Quality and Energy Conservation

Chairpersons: Demetrios Moschandreas, IIT Research Institute, Chicago, Illinois; **Frederek Shair**, California Institute of Technology, Pasadena, California

Indoor Air Pollution Simulations Using Dynamic Multi-Compartment Models, Haluk Ozkaynak, Atmospheric and Environmental Research, Inc., Cambridge, Massachusetts

Indoor Air Pollution with Solvent Type Organic Gases and Vapours Originating from Building Materials, L. Mølhave, Institute of Hygiene, University of Aarhus, Arhus, Denmark

An Investigation of the Offgassing Decay Function in Aging Mobile Homes with Climate Corrected Formaldehyde Readings, L.P. Hanrahan, H.A. Anderson, and K.A. Dally, Wisconsin Division of Health, Madison, Wisconsin; A.D. Eckmann, State Laboratory of Hygiene, Madison, Wisconsin; M.S. Kanarek, Department of Preventive Medicine, University of Wisconsin, Madison, Wisconsin

Measurements, Models and Mitigation Methods Related to Radon Levels in Princeton Residences, T.L. Hernandez, J.W. Ring, H.M. Sachs, and R.H. Socolow, Center for Energy and Environmental Studies, Princeton University, Princeton, New Jersey

Modeling The Impact of Chemical Spills in Fume Hood Upon The Air Quality Indoors, N. Pande, M. Miller, D. Reible, and F. Shair, California Institute of Technology, Pasadena, California

Dynamic Simulation of Exposure to Radon Daughters in Apartments Using Solar Heating Systems with Rockbed Storage, M.B. Rogozen, Science Applications, Inc., Los Angeles, California

Source Emissions and Predictive Modeling of Indoor Air Pollution, P.A. Scheff and R.A. Wadden, School of Public Health, University of Illinois at the Medical Center, Chicago, Illinois

FRIDAY, OCT. 16

Morning Session 9:00 a.m.-12:30 p.m.

Session G1-Policy and Regulatory Issues

Chairpersons: Alvin Alm, Kennedy School of Government, Harvard University, Cambridge, Massachusetts; **Donald Hornig**, School of Public Health, Harvard University, Boston, Massachusetts

Legal Aspects of Indoor Air Pollution in Energy Efficient Residences, T.J. Dreher, AnaChem, Inc., Albuquerque, New Mexico

An Approach to a National Indoor Air Pollution Policy, J.L. Repace, Office of Policy Analysis, U.S. Environmental Protection Agency, Washington, D.C.

Nordic Guidelines for Building Regulation Regarding Indoor Air Quality, J. Sundell, National Board of Occupational Safety and Health, Section for Ventilation and Thermal Climate, Solna, Sweden; J.D. Spengler, Harvard School of Public Health, Boston, Massachusetts

How Risky is Conservation?, H. Inhaber, Health and Safety Research Division, Oak Ridge National Laboratory, Oak Ridge, Tennessee

The Case for Entirely Removing the Gas Range from Indoors, T. Sterling and J. Weinkam, Simon Fraser University, Burnaby, British Columbia, Canada; E. Sterling, Cornerstone Planning Group, Vancouver, British Columbia, Canada

Indoor Air Pollution and Public Policy, K. Sexton, Harvard School of Public Health, Boston, Massachusetts; R. Repetto, Department of Population Studies, Harvard School of Public Health, Boston, Massachusetts

The Technique of Urban Mapping of Potential Indoor Air Pollution Intensity for Public Health Management, M.K. Kim and D.L. Schodek, Harvard University, Cambridge, Massachusetts

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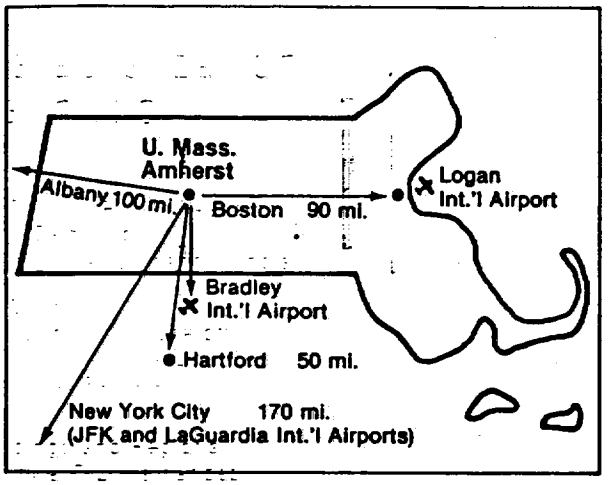
Location



Located in the center of New England, where the fall foliage is at its peak in mid-October, in the middle of the peaceful Pioneer Valley, the University of Massachusetts at Amherst is easily accessible by car, bus and plane.

Weather

Normal Daily Average Temperature: 53°F (12°C)
Normal Daily Maximum Temperature: 65°F (18°C)
Normal Daily Minimum Temperature: 40°F (4°C)
Record Maximum Temperature: 94°F (34°C)
Record Low Temperature: 24°F (-4°C)
Sunshine Factor: 57%
October Normal Precipitation: 3.18" (80mm)
Mean Number of Days in October with 0.01" or More of Precipitation: 9

Transportation

Amherst is a 50-minute drive from BRADLEY INTERNATIONAL AIRPORT, which is served by United, American, T.W.A., U.S. Air, Braniff, Delta, and Eastern Airlines.

LOGAN INTERNATIONAL AIRPORT in Boston is a two-hour (100-mile) drive to Amherst. Logan is served by most major airlines.

Car Rental

Rental cars are available at Bradley International Airport and Logan International Airport. For those desiring rental cars we have made arrangements with Avis for group rental rates. To be eligible for these group rates the cars must be returned to their original location. In addition, only those participants who pre-register by September 15 will be able to take advantage of these discount rates. Included in every confirmation packet to pre-registrants will be a coupon from Avis instructing participants on how to obtain the lowest rates on rental cars. Arrangements to pick up these cars must be made directly through Avis (telephone toll-free 800-331-1212) or through your travel agent, and not the Symposium coordinators.

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Accommodations

A limited number of hotel rooms on campus and in the area have been blocked out for use by Symposium participants. The hotels and appropriate information are listed below. Reservations should be made by the individual by contacting the hotel DIRECTLY. It is necessary that you inform the hotel that you are with the International Symposium on Indoor Air Pollution, Health and Energy Conservation.

Please note: Hotel accommodations will be assigned on a first-come, first-served basis. We recommend reservations be made as early as possible. Rooms are being held until SEPTEMBER 15, at which time they will be released for rental to the general public.

Lord Jeffrey Inn
30 Boltwood Ave., Amherst, MA 01002
tel.: (413) 256-2576
single: $26-$39 double: $39-$45
Credit cards: MC, BA, AE, DC
Restaurant and Lounge
1.3 mi. from campus

Howard Johnson's Motor Lodge
401 Russell St./Rt. 9, Hadley, MA 01035
tel.: (413) 586-0114
single: $25-$39 double: $35-$47
Credit cards: AE, BA, CB, MC, DC
Restaurant and lounge
2.7 mi. from campus

Towne House Motor Lodge
Rt. 5/117 Conz St., Northampton, MA 01060
tel.: (413) 586-1500
single: $27-$31 double: $36-$40
Credit cards: BA, MC, AE, CB, DC
Restaurant and lounge
5 mi. from campus

Northampton Hilton
Jct. of I-91 and U.S. 5, Northampton, MA 01060
tel.: (413) 586-1211
single: $35.00 double: $45.00
Credit cards: AE, MC, BA, CB, DC
Indoor pool, restaurant and lounge
7 mi. from campus

Shuttle Bus There will be a limited shuttle bus service from the above hotels to the Murray D. Lincoln Campus Center.

Campus Center Hotel
Murray D. Lincoln Campus Center
University of Massachusetts, Amherst, MA 01003
tel.: (413) 549-6000 ext. 714
single: $24 double: $34
Credit cards: AE, BA, MC
Restaurant and lounge

**Note: Prices may be subject to change.*

Registration

Location Registration and all meetings will take place at the Murray D. Lincoln Campus Center, University of Massachusetts at Amherst. The Symposium will begin with a social reception in the Campus Center on Monday evening, October 12. Pre-registrants will be able to receive their Symposium packet and copies of the Extended Summaries at this time. Late arrivals will be able to register from 8:00 a.m. to 5:00 p.m. on Tuesday and Wednesday, and from 8:00 a.m. to 12:30 p.m. on Thursday, October 15.

Symposium Fees The Symposium pre-registration fee is $110, which is available to participants whose registration is *received* by SEPTEMBER 15, 1981. For those who register after September 15, the fee will be $135. The registration fee includes:

- attendance at all sessions
- a copy of the Extended Summaries of all the papers to be presented at the Symposium
- a complete Symposium packet
- refreshment breaks and lunch on Tuesday, Wednesday, and Thursday (available to Symposium registrants only)
- parking at the conference center
- free shuttle bus service from selected area hotels to the conference center
- use of University recreational facilities (tennis courts, jogging trails, racquetball and handball courts, swimming)
- emergency health facilities

The daily registration fee is $35 per day. It does *not* include lunch or the Extended Summaries.

For participants who do *not* pre-register we cannot guarantee the availability of luncheons. Rates will *not* be adjusted for those to whom luncheon is not available, nor will daily rates be adjusted accordingly.

A pre-registration form and instructions are included in the last page of this brochure.

Upon receipt of the pre-registration form, confirmation information will be mailed to participants which will include a map of the area and travel directions from all regional airports. Also included will be your Avis information. This enclosed card assures you of our group rate and will facilitate the car rental process. We have secured these low group rates for an extended period through Monday, October 19 at noon.

Refund Policy No refund request will be honored unless received *in writing*. Cancellations received by SEPTEMBER 29, 1981 will receive a full refund. Those received between SEPTEMBER 29 and OCTOBER 6 will receive a 50% refund. No refunds will be granted for any reason AFTER OCTOBER 6.

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Visas

Participants who require a visa to enter the United States of America should submit the necessary application to the nearest diplomatic or consular representative of the United States of America as soon as possible.

European Co-ordinator
Dr. P.O. Fanger
Technical University of Denmark
Laboratory of Heating and Air Conditioning
Building 402
DK-2800 Lyngby, Denmark
Telephone: 45- (02)-882222

Power Station Field Trip

Hidden deep inside Northfield Mountain and reached by a half-mile-long tunnel, Northeast Utilities' electric power station is capable of generating one million kilowatts of electricity. It is the heart of one of the largest pumped storage hydroelectric plants in the world.

The cavern it occupies is as high as a ten-story building, as wide as a four-lane highway, and longer than a football field. Within this cavern are four 250,000 kilowatt electric generating units. The plant does not depend on the natural flows of the Connecticut River for operation. Utilizing energy generated at nuclear and more efficient fossil generating facilites, water from the Connecticut River is pumped to an upper reservoir during periods of low power demand, and then at times of high electric demand is released down a 1001-foot pressure shaft to power a turbine generator and continues to the lower reservoir where it is stored until it again resumes its cycle to the upper reservoir.

The operation of this facility is unusual and well worth viewing. We have arranged for a limited number of pre-registrants to walk through the power station on a first-come, first-served basis. Regulations required that we must have your date of birth in order to conduct the tour. If you are interested, please fill in the appropriate information on the registration form.

Spouses' Program

If there is sufficient response by Symposium participants, we may offer a spouses' program of various activities. Please indicate on the registration form if you are interested.

CUT HERE

Mail to: Conferences Services, University of Massachusetts, Amherst, MA 01003 USA

INTERNATIONAL SYMPOSIUM ON INDOOR AIR POLLUTION, HEALTH & ENERGY CONSERVATION
OCTOBER 12-16, 1981
University of Massachusetts

Name Dr. Mr. Ms. _____

Title _____

Organization _____

Business Address _____

City, State, Zip _____

Arrival date _____ Departure date _____

I am interested in Shuttle Bus service to area hotels:
YES___ NO___

I am interested in the tour to the Northfield Mountain Power Station YES___ NO___
If yes, please enter your date of birth _____

I am interested in a spouses' program: YES___ NO___

1. ___ Full program registration fee $110 (U.S.) ($135 after 9/15)		$_____
2. ___ Tuesday only	$35 (U.S.)	$_____
3. ___ Wednesday only	$35 (U.S.)	$_____
4. ___ Thursday only	$35 (U.S.)	$_____
5. ___ Friday only	$35 (U.S.)	$_____
TOTAL ENCLOSED		$_____

Charge: VISA # _____

MASTERCARD # _____

expiration date _____

signature _____

Or make checks payable to CONFERENCE SERVICES. Checks mailed from outside the U.S. must be redeemable through a U.S. bank.

Mail full payment by September 15 *to:*
Conference Services CS82-14
Campus Center
University of Massachusetts
Amherst, MA 01003 USA

Refund Policy No refund request will be honored unless received *in writing*. Cancellations received by SEPTEMBER 29, 1981 will receive a full refund. Those received between SEPTEMBER 29 and OCTOBER 6 will receive a 50% refund. No refunds will be granted for any reason AFTER OCTOBER 6.

___I cannot attend but am interested in proceedings.

OFFICE USE ONLY
payment _____
date/init. _____
check log # _____
case # _____
confirmed _____

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